

*Southern plateau.*—2d to 10th, 15th, 19th, 22d, 23d, 26th to 31st.

*Middle plateau.*—1st to 31st.

*Northern plateau.*—1st to 4th, 7th to 12th, 16th.

*North Pacific coast region.*—1st to 12th; 14th to 24th.

*Middle Pacific coast region.*—1st to 16th, 18th.

*South Pacific coast region.*—2d to 8th.

#### ICE.

Ice formed in the southern part of the country, as follows:

*Alabama.*—Birmingham, 8th to 14th; Greensborough, 9th to 13th.

*Arizona.*—Tucson, 9th; Yuma, 2d, 3d, 4th.

*California.*—Los Angeles, 2d to 6th.

*Florida.*—Archer, 6th to 14th; Merritt's Island and Limona, 10th, 11th, 12th; Manatee, 12th; Sanford, 10th; Jacksonville, 9th, 10th; Cedar Keys, 11th, 12th, 13th.

*Georgia.*—Forsyth, 13th; Quitman, 9th to 13th; Atlanta, 15th; Savannah, 10th; Athens, 6th, 7th, 13th, 14th, 18th, 19th, 20th, 30th, 31st; Milledgeville, 12th.

*Louisiana.*—New Orleans, 9th to 12th; Point Pleasant, 4th, 5th, 6th, 9th.

*North Carolina.*—Charlotte, 13th; Smithville, 6th, 9th; Fort Macon, 9th to 14th.

*South Carolina.*—Stateburg, 9th to 15th; Charleston, 9th.

*Texas.*—Corsicana, 11th, 12th, 21st to 24th, 26th, 27th, 30th, 31st; Palestine, 8th, 9th; San Antonio, 8th to 11th; Indianola, 8th; Galveston, 7th to 11th; Brownsville, 8th, 9th; Rio Grande City, 10th; Fort Concho, 5th to 11th.

#### PRECIPITATION.

[Expressed in inches and hundredths.]

The distribution of rainfall over the United States and Canada for January, 1886, as determined from reports from more than seven hundred stations, is exhibited on chart iii.

In the following table are shown, for the several geographical districts, the normal January precipitation for a series of years; the average for January, 1886, and the excess or deficiency as compared with the normal:

#### Average precipitation for January.

Districts.	Average for January, Signal-Service observations.		Comparison of Jan., 1886, with the average for several years.
	For several years.	For 1886.	
	Inches.	Inches.	Inches.
New England.....	4.10	6.00	+1.90
Middle Atlantic States.....	3.99	3.81	-0.18
South Atlantic States.....	5.26	4.77	-0.49
Florida Peninsula.....	3.28	2.72	-0.56
Eastern Gulf States.....	6.10	6.80	+0.70
Western Gulf States.....	3.87	4.61	+0.74
Rio Grande Valley.....	1.70	1.44	-0.26
Tennessee.....	6.32	5.66	-0.66
Ohio Valley.....	3.52	3.81	+0.29
Lower lake region.....	2.69	3.15	+0.46
Upper lake region.....	2.14	3.44	+1.30
Extreme northwest.....	0.54	0.97	+0.43
Upper Mississippi Valley.....	1.82	2.81	+0.99
Missouri Valley.....	0.63	0.92	+0.29
Northern slope.....	0.99	0.94	-0.05
Middle slope.....	0.34	0.90	+0.56
Southern slope.....	0.90	0.32	-0.58
Southern plateau.....	0.69	2.27	+1.58
Middle plateau.....	1.24	1.31	+0.07
Northern plateau.....	2.63	1.42	-1.21
North Pacific coast region.....	7.13	8.80	+1.67
Middle Pacific coast region.....	4.04	6.21	+2.17
South Pacific coast region.....	1.22	4.42	+3.20

The precipitation for January, 1886, is in excess of the average on the Pacific coast, in the plateau districts, and generally in all northern districts east of the Rocky Mountains; over portions of Alabama, Mississippi, and Louisiana the precipitation is also above the average. The greatest excess occurs in California, where it averages from two to three inches. In New England, the upper lake region, northern plateau, and in the north Pacific coast, the excess averages more than one inch; in other districts where an excess is shown the values

are less marked. In Montana, the northern slope, Rio Grande Valley, Tennessee, and on the Atlantic coast from central New Jersey southward the precipitation is below the average for January, the deficiencies generally averaging below one-half inch.

#### DEVIATIONS FROM AVERAGE PRECIPITATION.

The following table shows, for certain stations, as reported by voluntary observers, the average precipitation for the month of January for a series of years; the precipitation for January, 1886; and the departures from the average:

Station.	County.	Average precipitation for Jan.	Number of years.	Precipitation for January, 1886.	Departure.
		Inches.		Inches.	Inches.
<i>Arkansas.</i>					
Lead Hill.....	Boone.....	2.64	4	2.45	-0.19
<i>California.</i>					
Sacramento.....	Sacramento.....	4.22	12	6.26	+2.04
<i>Connecticut.</i>					
Hartford.....	Hartford.....	3.81	14	4.60	+0.79
Middletown.....	Middlesex.....	4.06	28	5.22	+1.16
New Haven.....	New Haven.....	4.18	14	3.53	-0.65
New London.....	New London.....	4.40	16	7.36	+2.96
Wallingford.....	New Haven.....	4.34	28	5.37	+1.03
<i>Dakota.</i>					
Webster.....	Day.....	1.69	3	1.24	-0.45
<i>Illinois.</i>					
Anna.....	Union.....	3.68	11	3.18	-0.50
Mattoon.....	Coles.....	2.63	6	2.80	+0.17
Riley.....	McHenry.....	1.82	24	3.60	+1.78
Swanwick.....	Perry.....	1.84	4	2.63	+0.79
<i>Indiana.</i>					
Lafayette.....	Tippecanoe.....	2.39	7	1.75	-0.64
Logansport.....	Cass.....	2.04	31	2.26	+0.22
Mauzy.....	Rush.....	3.18	6	4.27	+1.09
Spiceland.....	Henry.....	2.89	27	3.75	+0.86
Vevay.....	Switzerland.....	4.05	21	3.57	-0.48
<i>Iowa.</i>					
Cresco.....	Howard.....	0.96	10	3.72	+2.76
Monticello.....	Jones.....	1.75	32	3.35	+1.60
<i>Kansas.</i>					
Independence.....	Montgomery.....	1.59	14	1.58	-0.01
Wellington.....	Sumner.....	0.78	8	1.53	+0.75
Yates Centre.....	Woodson.....	0.99	6	1.64	+0.65
<i>Maine.</i>					
Eastport.....	Washington.....	3.59	13	9.01	+5.42
Gardiner.....	Kennebec.....	3.39	48	6.61	+3.22
Orono.....	Penobscot.....	3.69	18	6.64	+2.95
<i>Maryland.</i>					
Fullerton.....	Harford.....	3.68	15	6.00	+2.32
<i>Massachusetts.</i>					
Amherst.....	Hampshire.....	3.28	51	4.55	+1.27
Cambridge.....	Middlesex.....	4.07	45	7.35	+3.28
Chestnut Hill.....	Middlesex.....	4.21	11	7.17	+2.96
Framingham.....	Middlesex.....	4.07	12	6.54	+2.47
Lake Cochituate.....	Middlesex.....	3.75	35	6.53	+2.78
Lowell.....	Middlesex.....	3.00	60	5.38	+2.38
Lynn.....	Essex.....	3.81	12	5.98	+2.17
Mystic Lake.....	Middlesex.....	4.04	11	6.23	+2.19
New Bedford.....	Bristol.....	3.85	73	6.77	+2.92
Somerset.....	Bristol.....	4.20	16	5.09	+0.89
Springfield.....	Hampden.....	3.48	39	5.31	+1.83
Waltham.....	Middlesex.....	3.00	61	7.12	+4.12
Williamstown.....	Berkshire.....	2.53	21	3.92	+1.39
Worcester.....	Worcester.....	3.90	46	6.52	+2.62
<i>New Brunswick.</i>					
Saint John.....	Saint John.....	4.11	26	8.94	+4.83
<i>New Hampshire.</i>					
Concord.....	Merrimack.....	3.08	31	4.92	+1.84
Hanover.....	Grafton.....	2.49	19	2.76	+0.27
<i>New York.</i>					
Plattsburg Barracks.....	Clinton.....	1.85	17	1.15	-0.70
Factoryville.....	Tioga.....	2.34	4	3.42	+1.08
Palermo.....	Oswego.....	3.14	23	3.90	+0.76
North Volney.....	Oswego.....	3.26	14	4.45	+1.19
<i>Ohio.</i>					
Wauseon.....	Fulton.....	2.15	12	2.78	+0.63
<i>Pennsylvania.</i>					
Dyberry.....	Wayne.....	2.93	17	2.85	-0.08
<i>Rhode Island.</i>					
Providence.....	Providence.....	3.94	55	7.10	+3.16
<i>South Carolina.</i>					
Kirkwood.....	Kershaw.....	3.40	21	2.61	-0.79
<i>Texas.</i>					
New Ulm.....	Austin.....	4.87	13	1.13	-3.74
<i>Vermont.</i>					
Lunenburg.....	Essex.....	3.01	38	2.65	-0.36
Newport.....	Orleans.....	3.15	11	3.48	+0.33
Stratford.....	Orange.....	3.02	11	4.40	+1.38
<i>Virginia.</i>					
Bird's Nest.....	Northampton.....	3.68	18	3.15	-0.53
Dale Enterprise.....	Rockingham.....	3.69	6	5.85	+2.16
Variety Mills.....	Nelson.....	4.18	7	3.82	-0.36
Wytheville.....	Wythe.....	3.58	21	3.88	+0.30
<i>West Virginia.</i>					
Helvetia.....	Randolph.....	5.63	10	3.45	-2.18

\* From the "Bulletin of the New England Meteorological Society."

The following notes on the precipitation for January, 1886, are furnished by voluntary observers:

**Illinois.**—Riley, McHenry county: 25.2 of snow fell during the month, which is the largest amount ever recorded in January.

**Mattoon, Coles county:** the average snowfall for January, 9.0, is 2.9 above the average for the past six years.

**Indiana.**—Vevay, Switzerland county: the total snowfall, 6.7, is 2.6 below the January average for twenty-one years; the greatest January snowfall, 31.0, occurred in 1865, and the least, 1.1, in 1866.

**Logansport, Cass county:** the greatest January precipitation that has occurred in thirty-one years was 4.70, in 1870, and the least, 0.02, in 1872. The total snowfall for January, 17.3, is 4.9 above the average for thirty-one years; the greatest snowfall that has occurred in any January during this period was 35.4, in 1873, and the least, 0.2, in 1876.

**Mauzy, Rush county:** the total precipitation, 4.27, is the greatest that has occurred in any January in the past six years; the least was 1.63, in 1884.

**Iowa.**—Monticello, Jones county: the greatest precipitation that has occurred in January for the past thirty-two years was 3.77, in 1886, and the least, 0.29, in 1865; the greatest snowfall during this period was 28.5, in 1861; in January, 1867, no snow fell.

**Cresco, Howard county:** the total snowfall, 30.5, is 23.3 above the January average for the past ten years.

**Maryland.**—Fallston, Harford county: the greatest precipitation for January in the last fifteen years was 6.63, in 1882, and the least, 1.20, in 1872.

**Massachusetts.**—Worcester, Worcester county: the precipitation for January is far above the average; the total rainfall, including melted snow, was 6.52, against 5.01 during the same period last year, while the mean for the forty-six preceding years is but 3.90. The snowfall during the month was 23.5, against 12.1 during the same period in 1884, while the mean for a period of forty-seven years is 15.6.

**New York.**—Palermo, Oswego county: the total snowfall for January, 13.0, is 10.0 below the average for the past thirty-three years.

**Ohio.**—Wauseon, Fulton county: the largest precipitation that has occurred in any January for the past twelve years was 3.53, in 1880, and the smallest, 1.29, in 1879; the total snowfall, 13.0, is 1.5 above the average.

**Pennsylvania.**—Dyberry, Wayne county: the total snowfall for January, 15.0, is 0.5 below the average for twenty-seven years.

**Texas.**—New Ulm, Austin county: the maximum monthly rainfall that has occurred in any January for the past thirteen years was 10.56, in 1882, and the least, 1.13, in 1877 and 1886.

**Virginia.**—Variety Mills, Nelson county: 9.75 of snow fell during the month, which is 3.85 above the average for seven years.

In the tables of miscellaneous data are given the monthly precipitation, and the departures from the normal, at the various Signal Service stations. The following are some of the most marked departures from the normal:

Above normal.		Below normal.	
	Inches.		Inches.
Los Angeles, California.....	5.72	Cedar Keys, Florida.....	3.35
Eastport, Maine.....	5.70	Cape Henry, Virginia.....	1.97
Prescott, Arizona.....	5.01	Smithville, North Carolina.....	1.82
Sacramento, California.....	4.21	Charlotte, North Carolina.....	1.56
Escanaba, Michigan.....	3.52	Shreveport, Louisiana.....	1.41
Milwaukee, Wisconsin.....	3.12	Memphis, Tennessee.....	1.40
Alpena, Michigan.....	3.04	Chattanooga, Tennessee.....	1.23
Boston, Massachusetts.....	2.82	Fort Macon, North Carolina.....	1.19
Fort Apache, Arizona.....	2.72	Norfolk, Virginia.....	1.11

## SNOW.

The dates on which snow fell in the various districts are as follows:

**New England.**—1st, 2d, 3d, 4th to 31st.

**Middle Atlantic states.**—5th to 19th, 21st to 25th, 27th, 30th, 31st.

**South Atlantic states.**—4th to 9th, 15th, 16th, 21st, 24th, 30th, 31st.

**Florida Peninsula.**—Fort Gatlin and Sanford, 12th.

**East Gulf states.**—Montgomery, Alabama, 9th; Birmingham, Alabama, 5th, 8th, 9th, 11th, 29th.

**West Gulf states.**—3d, 4th, 7th, 8th, 12th, 13th, 17th, 18th, 23d, 24th, 27th, 29th.

**Rio Grande Valley.**—Fort Ringgold, Texas, 11th, 12th; Rio Grande City and Fort McIntosh, Texas, 12th.

**Tennessee.**—4th, 5th, 6th, 8th, 9th, 18th, 19th, 23d, 24th, 25th, 27th, 29th, 30th, 31st.

**Ohio Valley.**—3d to 24th, 27th, 29th, 30th, 31st.

**Lower lake region.**—2d, 4th to 31st.

**Upper lake region.**—1st to 13th, 15th to 31st.

**Extreme northwest.**—1st, 4th to 7th, 11th, 14th, 15th, 16th, 18th to 21st, 23d to 31st.

**Upper Mississippi valley.**—1st to 9th, 12th to 31st.

**Missouri Valley.**—2d, 3d, 4th, 6th, 7th, 8th, 14th to 28th, 30th, 31st.

**Northern slope.**—1st, 2d, 3d, 5th to 11th, 13th to 27th, 30th, 31st.

**Middle slope.**—1st to 4th, 6th to 23d, 25th to 31st.

**Southern slope.**—7th, 11th to 14th, 16th, 27th.

**Southern plateau.**—1st to 7th, 9th, 11th to 23d, 26th.

**Middle plateau.**—1st, 4th to 7th, 12th to 27th, 30th, 31st.

**Northern plateau.**—1st, 4th, 5th, 6th, 12th to 26th, 31st.

**North Pacific coast region.**—12th to 27th.

Snow storms of unusual severity were reported, as follows:

**Saint Paul, Minnesota:** the snow storm of the 3d–4th caused numerous blockades on the railroads, greatly impeding traffic.

**Kansas City, Jackson county, Missouri:** a heavy snow storm occurred in western Kansas on the 3d and 4th, accompanied by strong winds which drifted the snow badly, causing the stoppage of trains. Reports from Colorado and New Mexico state that the storm was one of the most severe in several years.

**Junction City, Davis county, Kansas:** the worst snow storm that ever visited this section occurred on the 7–8th; railroad communication was cut off, and business almost suspended.

**Clay Centre, Clay county, Kansas:** the severest blizzard which has visited this section for several years occurred on the 8–9th; heavy snow fell, which drifted badly, causing interruption in traffic.

**Marshalltown, Marshall county, Iowa:** the storm of the 8th was the most severe that has been experienced in twenty-five years, the thermometer ranged from 27° to 32° below zero; all railroad trains were snowed in.

**Mount Pleasant, Henry county, Iowa:** a violent wind and snow storm occurred on the 7–8th; the snow drifted badly, which caused interruption in the running of trains.

**Green Bay, Brown county, Wisconsin:** a heavy storm, with blinding snow, occurred on the 8th, causing the suspension of business.

**Cairo, Illinois:** the heaviest snow storm on record occurred on the 8th; railroad travel was impeded, and traffic partially suspended.

**Decatur, Macon county, Illinois:** a snow storm of great violence occurred on the 8th; street-car tracks were snowed under, and railroad trains greatly delayed.

**Galesburg, Knox county, Illinois:** a heavy snow and wind storm occurred on the 8th; railroad trains were greatly delayed.

**Highland, Madison county, Illinois:** the worst snow storm that has visited this place for several years occurred on the 8th.

**Duluth, Minnesota:** a severe snow storm occurred on the 8–9th, accompanied by strong northwest wind; railroad trains were delayed.

**Shawnee, Perry county, Ohio:** the heaviest snow storm known for years occurred on the 8–9th; the Baltimore and Ohio Railroad was blockaded, and all the mines in the valley were idle for the want of cars.

**Bowling Green, Warren county, Kentucky:** the heaviest snow storm in five years occurred on the 8th.

**Paducah, McCracken county, Kentucky:** the heaviest snowfall for many years occurred on the 8th; trains in all directions were delayed.

**Pittsburg, Pennsylvania:** the snowfall of the 8th and 9th was the heaviest known for years; from twelve to fifteen inches covered the ground, which greatly interfered with street railway travel, and delayed trains in all directions.

**Wilkesbarre, Luzerne county, Pennsylvania:** a severe snow storm, accompanied by a heavy gale, occurred on the 9th; throughout Wyoming Valley snow fell to a depth of from thirteen to sixteen inches, causing great interference with all kinds of traffic.

**Newburg, Orange county, New York:** a furious snow storm occurred on the 8–9th, accompanied by high winds which, drifting the snow badly, delayed trains and rendered travel on the country roads very difficult.

Schenectady, Schenectady county, New York: a heavy snow storm occurred on the 9th which interfered with the running of trains.

Elmira, Chemung county, New York: the snow storm of the 9th was very severe in this part of the state; the heavy drifts blockaded the railroads; street cars were stopped, and business generally suspended.

Hudson, Columbia county, New York: the heaviest snow storm experienced for many years occurred on the 9th; travel in the country was almost suspended.

Baltimore, Maryland: the storm of the 9th was unusually severe, the high wind drifting the snow caused a general blockade of the railroads and a partial suspension of traffic.

Savannah, Georgia: a light fall of snow occurred on the 9th, the first in six years.

Staunton, Augusta county, Virginia: a heavy snow storm occurred on the 8-9th which blockaded railroads and rendered travel difficult.

Helvetia, Randolph county, West Virginia: the snow storm of the 9th was one of the heaviest ever observed here.

Bismarck, Dakota, 23d: it is reported that in many of the valleys the snow is over twenty feet deep; trappers and hunters who have been in the mountains for years state that they never saw as much snow before, and predict heavy floods in the spring.

Saint Paul, Minnesota: the storm of the 21st-22d was the worst known for years, the wind blew at a terrific rate and the drifting snow interfered with the running of trains, many of which were abandoned.

Mankato, Blue Earth county, Minnesota: a blizzard occurred on the 22d, the heavy wind filling the cuts with snow, blockading railroad trains; the temperature was below  $-20^{\circ}$  throughout the day.

Austin, Mower county, Minnesota: the worst storm of the season occurred on the 22d, travel was entirely cut off by the drifting snow, and railroad trains were abandoned.

Oshkosh, Winnebago county, Wisconsin: a heavy wind, accompanied by snow, occurred on the 22d, causing great drifts which interfered with traffic; business was generally suspended.

Dubuque, Iowa: the heavy snow of the 21st and 22d caused a blockade of railroads worse than at any time this winter.

Elkhorn, Washington county, Illinois: the heavy snowfall of the 20th, 21st, and 22d made the highways almost impassable; all freight trains were abandoned.

#### LARGEST MONTHLY SNOWFALLS.

[Expressed in inches and tenths.]

Monthly snowfalls of ten inches or more were reported from the various states and territories during the month, as follows:

*California.*—Summit, 131; Cisco, 92; Emigrant Gap, 63; Truckee, 47; Boca, 43.5; Fort Bidwell, 26.5; Susanville, 18.5; Towles, 13.

*Colorado.*—Pike's Peak, 26.5; West Las Animas, 12.7.

*Connecticut.*—New London, 23; Hartford, 17; Norfolk, 16; Collinsville, 15.3; Middletown and Wallingford, 15; North Colebrook, 13.4; Southington, 12; New Haven, 11.1.

*Dakota.*—Richardton, 29.5; Deadwood, 17.5; Vermillion, 13.5; Fort Totten, 12.3.

*Idaho.*—Boisé City, 11.9.

*Illinois.*—Rockford, 40.5; Geneseo, 27; Chicago, 26.7; Bunker Hill, 26; Riley, 25.2; Windsor, 24.8; Bloomington, 23.8; Peoria, 17; Springfield, 12.5; Cairo, 12.

*Indiana.*—Logansport, 17.3; La Grange and Greenfield, 17; Princeton, 12; Degonia, 11.5; Buttrville, Fort Wayne, and Jacksonville, 11; Knightstown, 10.8; Farmland, 10.

*Iowa.*—Des Moines *a*, 37; Cresco, 30.5; Muscatine, 28.5; Independence, 25.8; West Union, 23.1; Fort Madison and Des Moines *b*, 22; Cedar Rapids, 20.8; Keokuk, 20.4; Manchester, 20; Dubuque, 18.5; Bancroft, 18; Oskaloosa *a*, 15.7; Davenport, 15; Oskaloosa *b*, 12.5; Monticello, 11.5.

*Kansas.*—Allison, 22; Wakefield, 20.5; Fort Scott and

Niunescan, 20; Salina, 17; Concordia, 16.6; Atchison, 13.5; Topeka, 12; Wellington, 10.5.

*Kentucky.*—Penrod, 18.5; Richmond, 14; Frankfort, 12.9.

*Maine.*—Orono, 37; Cornish, 31; Bridgeton, 26; Mayfield, 25; Belfast and Gardiner, 24; Solon, 20.8; Portland, 18.2; Buckfield and Bar Harbor, 18; Kent's Hill, 16; Petit Manon, 11.

*Maryland.*—Fallston, 16.5; Baltimore, 13; Woodstock, 12; Cumberland, 10.

*Massachusetts.*—Beverly Farms, 36.5; Westvale, 29; Newburyport, 28.5; South Hingham, 27.5; Salem and Boston, 26; Lawrence, 23.8; Rowe and Worcester, 23.5; Williamstown *a*, 23; Williamstown *b*, 22; Concord, 21.2; Providence *a*, 20.8; Providence *b*, 20; Westborough, Cambridge, Olneyville, Gilbertville, and Hopkinton, 19; Lowell, 18.5; Fall River, 18; Taunton *a*, 17.5; Somerset and Northfield, 17.2; Framingham, 17; Taunton *b*, Woonsocket, Milton, and New Bedford, 16; Chestnut Hill, 15.8; Chicopee and Springfield, 15.5; Amherst and Fitchburg *b*, 15; Holyoke, 14.6; Leicester and Fitchburg *a*, 14; Ludlow, 12; Leominster, 10.5; Mendon, 10.

*Michigan.*—Traverse City and Alpena, 47; Escanaba, 40.4; Kalamazoo, 35.2; Manistique, 34.5; Mackinaw City, 29.8; Marquette, 28.3; Harrisville, 27.6; Pentwater, 22; Lansing, 20.5; Thornville, 20; Grand Haven, 19.7; Mottville, 19.5; Hudson, 12.5; Detroit, 12.2; Birmingham, 10.6.

*Minnesota.*—Winona, 56; Red Wing, 52.5; Spring Valley, 44; Northfield, 39; Dodge Center, 36; Minneapolis, 30.1; Albert Lea, 25; Duluth, 24.2; Saint Paul, 20.2; Wadena, 16; Saint Vincent, 12.3.

*Missouri.*—Pierce City, 18; Frankford, 13.8; Lamar, 11.8; Centreville, 10.4; Saint Louis, 10.

*Montana.*—Fort Maginnis, 20.8; Fort Assinaboine, 16.9; Helena, 10.9.

*Nebraska.*—Yutan, 28; Fremont, 23.7; De Soto, 23.4; Genoa, 21; Tecumseh and Stockham, 20; Omaha, 18.8; Crete, 16.8; Marquette, 15.7.

*Nevada.*—Otego, 13.5; Halleck, 12.5; Carson City, 11.7; Carlin, 11.

*New Brunswick.*—Parker's Ridge, 39; Saint John, 18.

*New Hampshire.*—Warner, 23.5; Littleton, 23.2; Hanover, 22.8; Nashua and Mount Washington, 22; Concord, 21; Manchester *a*, 20; Manchester *b*, 17.7; Walpole, 17.2.

*New Jersey.*—Sandy Hook, 18; Paterson, 16.5; Beverly, 14; Atlantic City, 13.5; Moorestown, 13; Princeton, 11; Vineland, 10.

*New Mexico.*—Galinas Springs, 10.5.

*New York.*—Ithaca, 27.7; Buffalo, 24.8; Albany, 19.7; New York City, 18.6; Humphrey, 18.5; Menand Station (near Albany), 17.2; Rochester, 16.7; Brooklyn, 16.5; Penn Yan, 16; Factoryville, 15.2; Mountainville, 14; Auburn, 13.4; Palermo, 13; Le Roy, 12.1; Setauket and White Plains, 10.

*Ohio.*—Garrettsville, 20.5; Hiram, 18; Cleveland, 17.8; Fostoria, 14.5; Jacksonborough, 14; Yellow Springs, 13.8; Wauseon, 13; McConnelsville, 11.5; College Hill, 10.5; Toledo, 10.3; North Lewisburg and Tiffin, 10.

*Oregon.*—Eola, 21.

*Pennsylvania.*—Troy, 23.5; Catawissa, 22.2; Erie, Pfttsburg, and Grampian Hills, 22; Wilkesbarre, 21.2; Dillingersville, 19.5; Wysox, 16; Dyberry, 14.5; Wellsborough, 13.3; West Chester, 13; Germantown, 12.5; Quakertown, 11; Blooming Grove, 10.5; Fallington, 10.2.

*Rhode Island.*—Pawtucket, 21.4; Lansdale, 18.5.

*Tennessee.*—Clementsville, 16.5; Riddleton, 10.7; Rogersville, 10.

*Utah.*—Ogden, 12.8; Salt Lake City, 10.5; Promontory, 10.2.

*Vermont.*—Strafford, 41; Jacksonville, 30; Brattleborough, 26.5; Chelsea, 24.6; Townshend and Windsor, 24.2; Dorset, 23; Marlborough, 21.4; Lunenburg, 19; Poultney, 18; Stowe, 16.5; Newport, 16.4; Vernou, 16; Charlotte, 13; Burlington, 11.

*Virginia.*—Dale Enterprise, 22.5; Wytheville, 19.2; Lynchburg, 15.8; Marion, 12; University of Virginia, 11.2.

*Washington Territory.*—Pleasant Grove, 27; Walla Walla,